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#5/A
BOX SEQUENCE
PATENT
2750-1028P

IN THE U.S. PATENT AND TRADEMARK OFFICE

APPLICANT(S): Nickolai ALEXANDROV et al.

APPLICATION NO.: 09/679,203

GROUP: UNASSIGNED

FILED: October 4, 2000

EXAMINER: UNASSIGNED

FOR: SEQUENCE-DETERMINED DNA FRAGMENTS AND
CORRESPONDING POLYPEPTIDES ENCODED THEREBY

AMENDMENT

Honorable Commissioner of Patents
Washington, D.C. 20231

July 9, 2001
(Monday)

Sir:

In response to the Notice to File Missing Parts of Nonprovisional Application mailed May 7, 2001, the following amendments and remarks are respectfully submitted in connection with the above-identified application.

In the Specification:

Please add the following paragraph before the paragraph beginning on page 1, line 6:

-- This application contains a CDR, the entire contents of which are hereby incorporated by reference. The CDR contains the following files:

A1

File Name	Date of Creation	File Size
2750-1028P Protein Domain Table.txt	July 6, 2001	2.07 MB
2001-07-09 2750-1028P Sequence Listing.txt	July 6, 2001	153 KB

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Please replace the paragraph beginning on page 60, line 22 with the following amended paragraph:

A2
--The polypeptides of the invention may possess identifying domains. In addition, the domains within the SDF encoded polypeptide can be defined by the region that exhibits at least 70% sequence identity with the consensus sequences listed in the Protein Domain Table of each of the domains.--

Please replace the paragraph beginning on page 60, line 26 with the following amended paragraph:

A3
--The majority of the protein domain descriptions in the Protein Domain Table are obtained from Prosite,
(<http://www.expasy.ch/prosite/>), and Pfam,
(<http://pfam.wustl.edu/browse.shtml>). --

Please delete the text beginning with the paragraph on page 61, line 1 through page 1041 of the specification containing the Protein Domain Table. Please renumber the remaining pages of the specification, beginning with page 61. Please insert the two identical CD-Rs representing the paper copy of the Sequence Listing and the Protein Domain Table as part of the application.

REMARKS

Sequence Listing

Enclosed herewith in full compliance to 37 C.F.R. §§1.821-1.825 is a Sequence Listing submitted on two (2) identical CD-Rs (labeled "Copy 1" and "Copy 2") under 37 C.F.R. §1.821(c) in place of the paper copy. The computer readable form of the Sequence Listing is submitted herewith on one (1) additional CD-R (labeled "Computer Readable Form") as required by §1.821(e). These three (3) identical files of the Sequence Listing file "2001-07-09 2750-1028P Sequence

Listing.txt" on each CD-R, in no way introduce new matter into the specification.

Also on the two (2) identical CD-Rs labeled "Copy 1" and "Copy 2" is an amended version of the Protein Domain Table, file "2750-1028P Protein Domain Table.txt", submitted in a clean form without markings as to amended material. The Protein Domain Table was previously submitted in paper form as pages 61 through 1041 of the specification, as the PTO had not yet created the rules (37 CFR § 1.52 (e)) for submitting large tables on CD-R. The amendments to the Protein Domain Table are being made to reference the sequences containing four or more amino acids disclosed in the specification by their SEQ ID NOS. No new matter is introduced by these amendments or by the submission of the protein domain table on CD-R instead of on paper.

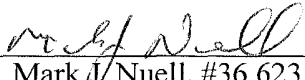
As required under 37 C.F.R. §1.121, a marked-up copy of the Protein Domain Table, file "2750-1028P Marked Protein Domain Table.txt", is enclosed herewith on a fourth compact disk labeled "Disk with Markings". This marked-up copy file shows the matter being added to and the matter being deleted from the Protein Domain Table of record. This file shows the material being added to the Protein Domain Table by including the tags "<u>" before and "</u>" after any amendments that were added to this file. Any material deleted from the Protein Domain Table of record is tagged with a "" before and a "" after the deleted material. No new matter is being added by these amendments.

The format for submitting these amendments made to the Protein Domain Table filed on CD-R and for submitting a marked-up version of the changes made to the Protein Domain Table on CD-R was recommended by Michael Lewis and Joe Narcavage from the Office of Patent Legal Administration who indicated that this was currently the most acceptable format for amending CD-R files. Submitting substitute compact disks gives the Patent Office the advantage

of saving the time needed to enter the large volume of amendments in the specification and reducing the number of printing errors. It also saves the Applicant and the Patent Office the space needed to print and store the 800+ pages associated with the paper copy of the file "2750-1028P Protein Domain Table.txt".

If the Primary Deposit Account No. 50-1055 is deficient and non-payment will result in a loss of rights, the Commissioner is hereby authorized in this, concurrent and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17; particularly, extension of time fees.

Respectfully submitted,
BIRCH, STEWART, KOLASCH & BIRCH, LLP

By 
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Attachments: -One (1) CD-R of computer readable form of the Sequence Listing
 -Two (2) (identical) CD-Rs containing Sequence Listing (in place of the Paper
 Copy) and Domain Table
 -One (1) CD-R containing the version with markings to show changes made
 -Copy of Notice to File Missing Parts of Nonprovisional Application

RCS/DRN/CAV
2750-1028P